Serial No.: 10/789,893

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Claim Rejections - 35 U.S.C. §103

The rejection of Claims 1-4, 7, and 10-12 under 35 U.S.C. §103(a) as being obvious over Imam, US 2002/0097128, in view of Abel, U.S. Patent No. 6,198,374, is respectfully traversed.

The Office Action states at page 2 that Imam discloses an IC chip (FIG. 6) including an inductor coil 600 and an electrical and magnetic core 640. The Office Action further states that "Imam discloses the instant claimed invention except for the specific configuration of the inductor coil." Abel is relied upon for teaching a particular inductor coil configuration.

Applicant respectfully disagrees with this rejection. The combination of Imam and Abel does not provide or suggest Applicant's claimed invention. Neither would there have been any reason to combine the teachings of these references.

Imam teaches a completely different, and simpler, structure than the inductor of Applicant's claimed invention. Imam teaches a multiple winding inductive element with a core and having a horizontal structure, which is generally a classic "solenoid" inductor that is laid flat. FIG. 6 of Imam is not a planar spiral inductor as in Applicant's claimed invention. The horizontal inductive element of Imam is fabricated by "simple" metal bars laid layer-by-layer for both the winding and the core (See the description of FIGS. 1-4). Applicant's recited structure is a spiral inductor that is vertical, and includes planar coils and a vertical magnetic core. Such spiral coils and cores are generally formed or assembled simultaneously in IC fabrication. The resulting, and recited, structure is a very different structure from, and more difficult to manufacture than, the inductive element of Imam.

One skilled in the art would not have considered Abel relevant to Imam or the present invention. Abel does not teach an IC inductor, but a group of low-permeability thin magnetic layers screen-printed or pasted on each winding. Abel places a group of low-permeability, thin magnetic films on top/bottom and/or between

Serial No.: 10/789,893

each winding spiral layers. This is completely different from Applicant's claimed IC

inductor.

Abel and Imam, individually or in combination, provide no suggestion

or motivation to combine the teachings thereof. Imam is related to a different type of

inductive element from Applicant's vertical inductor, while Abel is not even an

inductor. One skilled in the art would not have considered Abel and Imam analogous

art for combining. Favorable reconsideration and withdrawal of this rejection are

respectfully requested.

Conclusion

Applicant intends to be fully responsive to the outstanding Office

Action. If the Examiner detects any issue which the Examiner believes Applicant has

not addressed in this response, Applicant's undersigned attorney requests a telephone

interview with the Examiner.

Applicant sincerely believes that this Patent Application is now in

condition for allowance and, thus, respectfully requests early allowance.

Respectfully submitted,

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